Active Regenerating Islet Derived Protein 3 Beta (REG3b)

Catalog#:PEM12984

概述（Summary）

别称（Alternative Names）	PAP1; Pancreatitis-Associated Protein 1
纯度（Purity）	Greater than 97% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Glu27-Gly175】
Accession #	P35230
表达宿主（Host）	E.coli
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	20.4 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Bactericidal C-type lectin which acts against several intestinal Gram-positive and Gram-negative bacteria. Lacks antibacterial activity against S.typhimurium. May play a role in protection against infection with S.enteritidis by inhibiting its translocation from the gut lumen into intestinal tissues and further extraintestinal tissues.

电泳图（SDS-PAGE image）



Greater than 97% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

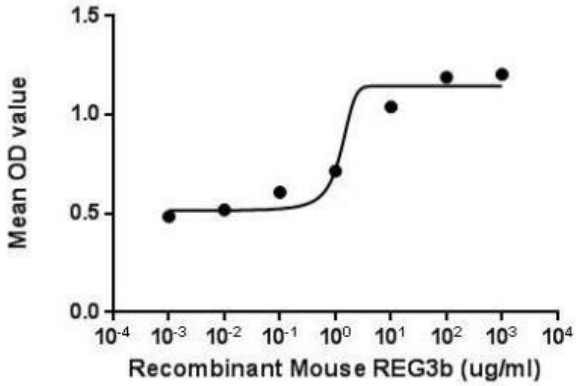
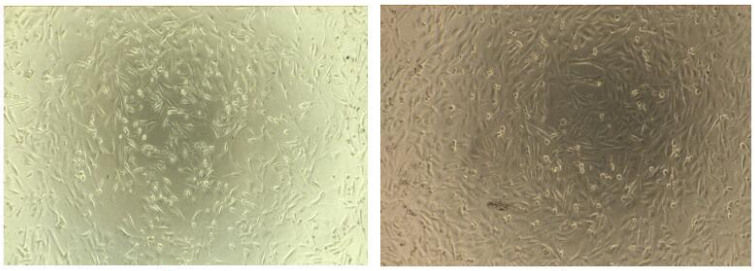


Figure 2. The dose-effect curve of REG3b on SK-N-SH cell.

Regenerating Islet Derived Protein 3 Beta (REG3b) also known as PAP-I and HIP is bactericidal C-type lectin which acts against several intestinal Gram-positive bacteria and Gram-negative bacteria. The Reg family proteins have been implicated in a range of physiological processes including acting as acute phase reactants, lectins, survival/growth factors for insulin-producing pancreatic beta-cells, neural cells, and epithelial cells of the digestive system. To test the effect of REG3b on cell proliferation of SK-N-SH, SK-N-SH cells were seeded into triplicate wells of 96-well plates at a density of 5,000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of REG3b. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10μL of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37°C .Cell proliferation of SK-N-SH cells after incubation with REG3b for 72h observed by inverted microscope was shown in Figure 1. The dose-effect curve of REG3b was shown in Figure 2. It was obvious that REG3b significantly promoted cell proliferation of SK-N-SH cells. The ED50 for this effect is typically3.685-84.37ng/mL.



A B

Figure 1. Cell proliferation of SK-N-SH cells after stimulated with REG3b.

(A) Unstimulated SK-N-SH cells cultured in serum-free DMEM for 72h.

(B) SK-N-SH cells cultured in DMEM, stimulated with 10ng/mL REG3b 72h;

注意事项（Note）

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